

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher J. Lutz (44,883) on 12 February 2009.

The following claims have been amended as follows:

33. A method for interprocess communication comprising:

defining an event indicative of a reportable occurrence in the information retrieval environment, the event corresponding to a common class associated with a plurality of events, the plurality of events associated with a genericizing reference, the genericizing reference inclusive of the plurality of events and each of the events associated with an event specific class having event data indicative of event specific parameters, each of the events defined independently of an underlying delivery infrastructure;

subscribing, from a local subscriber, to the event for requesting reporting of the event, subscribing further including specifying an event handler operable to process the event, the local subscriber issuing the received event subscription becoming disabled following the subscription until an occurrence and subsequent publication of the event;

registering an indication of the subscription in a local map providing a local mapping operative for associating events and event handlers in a local process for invoking the event handler responsively to an occurrence of the defined event;

registering an indication of the subscription in a global map providing a persistent mapping operative for associating events with event handlers, and further operable to invoke event handlers in remote servers;

receiving a publication of the event from a monitoring component;

dispatching an indication of the publication to local subscribers;

propagating an indication of the publication to the global event service; and

invoking a module including the specified event handlers in response to the dispatching and propagating the indication of event publication, invoking including indexing, in the persistent mapping via the event identity, a persistent reference to the modules including the event handlers associated with the event, the persistent reference operable to identify a handler independently of enablement of the module containing the associated event handler,

enabling modules corresponding to activation of a corresponding component by an activation mechanism;

disabling corresponding to deactivation of the corresponding component by the activation mechanism, the activation and deactivation operations operable to reduce memory consumption by inactive components and provide selective invocation to maintain availability of the component, the event data including event variables

generated and passed by the publisher of the event and subscriber instantiated variables generated by the state information of the subscriber; selectively enabling, if the module including the corresponding event handler is disabled, the module for enabling the event handler for receipt and subsequent processing of the published event; and invoking the module including the corresponding event handler via the mapping.

34. An information processing device for processing events in a managed information system comprising:

an interface for defining a plurality of events, the plurality of events associated with a genericizing reference, the genericizing reference inclusive of the plurality of events and each of the events associated with an event specific class having event data indicative of event specific parameters, each of the events defined independently of an underlying delivery infrastructure;

a processor operable to perform a set of instructions according to a predetermined sequence;

a memory operable to store the instructions and corresponding data items;

an interface operable to transmit and receive, based on the instructions, commands and data to other information processing devices in the managed information system;

an event service operable to receive an event subscription containing an event identity for an event, the event corresponding to reportable occurrences in the managed information system;

an event map operable to associate the event identity with an event handler responsive to the event by creating a mapping of the event identity to the event handler;

a subscriber having an event handler operable to receive a publication of the event, the event service further operable to traverse, in response to the publication of the event, the mapping of the event identity to an indication of the corresponding associated event handler, the traversing operable to enable the module including the handler if the module is disabled at the time of publishing the event, traversing further including:

identifying the event in a persistent event mapping, the persistent event mapping indicative of modules containing event handlers associated with the event; and

dispatching, in the identified modules, the associated event handlers, dispatching comprising:

selectively receiving an enablement indication in response to traversing in the persistent event mapping;

identifying, in a local event mapping for the enabled module, subscriber entities including handlers associated with the mapped event;

invoking the module including the corresponding event handler via the mapping and

invoking, in the mapped module, the identified subscribers including associated handlers,

the event data including event variables generated and passed by the publisher of the event and subscriber instantiated variables generated by the state information of the subscriber; and

an activation manager operable to determine if a particular module including the corresponding event handler is enabled, and further operable to selectively enable, if the module including the corresponding event handler is disabled, the module for enabling the event handler for receipt and subsequent processing of the published event.

38. The method of claim 34 wherein the event service is further operable to, following selective enabling of the module containing the corresponding handler:

determine the mapping of the enabled module and corresponding event handler.

51. An information processing device having a processor for processing events in a managed information system comprising:

means for defining a plurality of events, the plurality of events associated with a genericizing reference, the genericizing reference inclusive of the plurality of events and each of the events associated with an event specific class having event data indicative of event specific parameters, each of the events defined independently of an underlying delivery infrastructure;

means for receiving an event subscription containing an event identity for an event, the event corresponding to reportable occurrences in the managed information system;

means for associating the event identity with an event handler responsive to the event by creating a mapping of the event identity to the event handler, the association between the event identity and the corresponding event handler further comprising:

a local mapping in a local event map identifying a subscribing entity including an event handler corresponding to the event identity, and

a persistent event mapping in a shared memory portion identifying the module including the event handler corresponding to the event identity;

means for receiving a publication of the event;

means for traversing, in response to the publication, the mapping of the event identity to an indication of the corresponding associated handler, the traversing operable to enable the module including the event handler if the module is disabled at the time of publishing the event, the means for traversing further including:

means for identifying the event in a persistent event mapping, the persistent event mapping indicative of modules containing event handlers associated with the event; and

means for dispatching, in the identified modules, the associated event handlers, dispatching comprising:

means for selectively receiving an enablement indication in response to traversing in the persistent event mapping;

means for identifying, in a local event mapping for the enabled module, subscriber entities including handlers associated with the mapped event;

means for invoking the module including the corresponding event handler via the mapping; and

means for invoking, in the mapped module, the identified subscribers including associated handlers,

the event data including event variables generated and passed by the publisher of the event and subscriber instantiated variables generated by the state information of the subscriber; and

means for selectively enabling, if the module including the corresponding event handler is disabled, the module for enabling the event handler for receipt and subsequent processing of the published event.

54. The method of claim 53 wherein selective activation further comprises:  
detecting, from a loaded component defined by a detecting software entity, occurrence of an instance corresponding to an event handler; and  
invoking the event handler, the event handler in the invoked module, by activating the component including the event handler.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHAN PRICE whose telephone number is (571)272-4196. The examiner can normally be reached on 8:30am - 5:00pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/  
Supervisory Patent Examiner, Art Unit 2195

NP